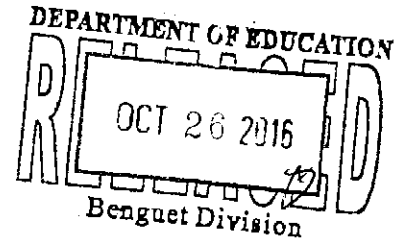


October 24, 2016

DIVISION MEMORANDUM

No. 204-2016



Result of the Division Math and Science Festival

TO: Public Schools District Supervisors
Elementary and Secondary School Heads (Public and Private)
Teachers

1. The Schools Division Office would like to announce the result of the 2016 Division Math and Science Festival held at Loo Elementary and National High School, Loo, Benguet last October 12-14, 2016.
2. Congratulations to all participants, math and science officials, the host schools and especially to all the winners.
3. The overall standing of the districts in the elementary and secondary level are as follows:

ELEMENTARY			SECONDARY - JUNIOR HIGH SCHOOL		
Rank	District	Total Score	Rank	District	Total Score
1	La Trinidad	141	1	La Trinidad	193.5
2	Mankayan	73	2	Buguias	129
3	Tublay	62.5	3	Mankayan	99.5
4	Bokod	55	4	Kapangan	65.5
5	Itogon 2	45.5	5	Tuba	65.5
6	Kapangan	40	6	Tublay	54.5
7	Tuba	39	7	Itogon	39.5

4. Attached is the list of winners.
5. Immediate dissemination of this memorandum is desired.


FEDERICO P. MARTIN, Ed.D., CESP VI
Schools Division Superintendent

**2016 MATH AND SCIENCE FESTIVAL
RESULT
SECONDARY**

204 · 2016

EVENT	RANK	PARTICIPANT	COACH	DISTRICT
Integer Damath	First	Chevew B. Akien	Efren Kinomes	CRSHS- La Trinidad
	Second	Johnson Pacliwan	Eljun Arisga	Tuba CNHS-Tuba
	Third	Jerico Bautista	Sarah Dino	Mankayan
Rational Damath	First	Sheika Nightingle S. Bitaga	Jacqueline A. Gabatino	Mankayan
	Second	Jenar Gonzales	Janice S. Dionisio	Taloy NHS- Tuba
	Third	Jethro V. Calion	Andenson C. Gullingoy	Buguias NHS- Buguias
Radical Damath	First	Noriel M. Alapang	Rosemarie C. Pasi	Sablan NHS-Sablan
	Second	Christian S. Dapyawen	Janice Dionisio	Taloy Sur NHS- Tuba
	Third	Braille Eush A. Manacnis	Alvin C. Guaki	CRSHS- La Trinidad
Polynomial Damath	First	Kenny Belmoro	Crispher D. Ediong	LTNHS- La Trinidad
	Second	Homer Camolo	Menandro Montero	Loo NHS-Buguias
	Third	Dondon Gracio	Rosemarie Pasi	Sablan NHS- Sablan
Electro Sci-dama	First	Nicole Lynn Bangaan	Julia Caytap	CRSHS La Trinidad
	Second	Jessie James B. Osting	Willie P. Bosantog	SNHS-Buguias
	Third	Rodcl Canabe	Michel Dave Dallapas	Balili NHS- Mankayan
Sci Notation	First	Ishi Carbonilla	Delfin Chawan	Tuba Central NHS- Tuba
	Second	Aljean G. Bacquian	Dominga Henry	SNHS-Main- Buguias
	Third	Hycon Taek Oh	Julia Caytap	CRSHS- La Trinidad
THI- Sci Dama	First	Diamond Dianne T. Daganos	Maria Fe C. Bumughawi	Mankayan NHS- Mankayan
	Second	Liane Benito	Rosenda C. Monang	Sablan NIIS- Sablan
	Third	Sawi F. Ateo	Joy A. Kial	GBDAIS- Extension- Kapangan
Thermo Sci-Dama	First	Roman Ramos	Eljun L. Arisga	Tuba Central NHS- Tuba
	Second	Jennifer Hora	Wilson B. Caysoen	BeNIIS-Main La Trinidad
	Third	Narciso N. Pongdad Jr.	Rizaldyn S. Bitaga	Mankayan NHS- Mankayan
Math Quiz Written-Secondary	First	Wijelynn Allan	Melba Canol	GBDAIS-Main Kapangan
	Second	Czarlynn L. Serrano	Jessica Wakit	HOPE-BPSA
	Third	Nicole C. Dompayag	Jeana Angluben	Ampusongan Main- Bakun
Math Quiz Grade 7	First	Sean Angelo B. Palo	Geofrey C. Canipas	HOPE- BPSA
	Second	Jherabel B. Agyapas	Nanette Bayating	TSHI- Tublay
	Third	Jacelle A. Fuyongan	Decenia t. Cabacab	Lepanto NHS- Mankayan
Math Quiz Grade 8	First	Jinky D. Lopez	Liza Lumadao	GBDAIS Main Kapangan
	Second	Guxy Shne V. Gup-ad	Jenny Obonan	Kamora NHS Kabayan
	Third	Rhezic C. Almuete	Marjorie Lictag	AMPMNHS Itogon
Math Quiz Grade 9	First	Sage Evan T. Vilaga	Alvin Guaki	CRSHS-La Trinidad
	Second	James Albert A. Dacyon	Kimberly S. Amoy	Lepanto NHS-Mankayan
	Third	Erl Jansen C. Fingi	Janice P. Escaño	Star Colleges-BPSA
Math Quiz Grade 10	First	Mave Daniel Dayag	Menandro Montero	Loo NHS Buguias
	Second	Keneth John M. Santiago	Joseph Bacani	Tuba CNHS- Tuba
	Third	Danielle Janice B. Pasiwen	Tricia Awal	CRSHS- La Trinidad
Science Quiz Grade 7	First	Olive Faith B. Montes	Loida A. Boslay	TSHI EXT. Tublay
	Second	Midori G. Gomez	Veneranda F. Dawey	Tuba CNHS Tuba
	Third	Lea Rose M. Basilio	Mary Claire C. Pol-ocan	Kamora NHS- Kabayan
Science Quiz Grade 8	First	John Allen B. Guisdan	Jonathan Busilac	BNHS- Sinacbat Extn. Bakun
	Second	Crystal Dale Espada	Tristan Malafu	Mankayan NIIS- Mankayan
	Third	Nestor Poltic Jr.	Julita Caytap	CRSHS La Trinidad
Science Quiz Grade 9	First	Jerileen F. Paleng	Marieta Andres	CRSHS La Trinidad
	Second	Frank Brett M. Colas	Santa B. Atinan	Kamora NHS- Kabayan
	Third	Faye Tondo	Sharon Domeris	TSHI- Tublay
Science Quiz Grade 10	First	Yvonne Rhea Oro Bolcio	Jomar Palileng	Loo NHS- Buguias
	Second	Jed A. Cangsan	Ana Liza Cortes	BNHS-Main- Bokod
	Third	Jane Losnong	Aida L. Mayos	Camp 30 NHS- Atok
Action Research- Sci	First	Rosalie Anhibey		Bangao NHS- Buguias

CONGRATULATIONS!

**2016 MATH AND SCIENCE FESTIVAL
RESULT
ELEMENTARY**

204 · 2016

Event	Rank	Participant	Coach	School-District
Damath – Whole Number	First	Reeden F. Omar	Angelita B. Murillo	Virac Es- Itogon Ii
	Second	Brandon A. Solimen	Rosalita B. Dion	Tap-Ayao Abiyang Es- Bakun
	Third	Jim Paciteng	Jacqueline Mensi	Balalbak Es, Kapangan
Damath- Fraction	First	Loiue Bryant B. Atet-Eng	Lani L. Bilalay	Batuan Es- Tuba
	Second	Adrian Aludos	Juliet D. Mocnangan	Acupan Es- Itogon Ii
	Third	Rhealyn C. Hilario	Thelma S. Lapniten	Pagal Es- La Trinidad
Sci Dama Water Patrol	First	Georniel Vincent O. Changilan	Evangeline Rumilan	Virac Es- Itogon Ii
	Second	Albert B. Pengosro Jr.	Juliet P. Balangoy	Bakun Cs- Bakun
	Third	Junel Acyawan	Perline A. Daculog	Balalbak Es- Kapangan
Sci-Dama Power Patrol	First	Dyran Marc G. Tomino	Randall Nape-Ek	Maximino Lopez Es- Itogon I
	Second	Rhoda Mae W. Ulep	Elcanor B. Tino	Moran Es - Tublay
	Third	Shanniah Mae Pulas	Marlene O. Naboye	Pagal Es- La Trinidad
Math Quiz Grade 4	First	Marianelle Wayan	Sally B. Molitas	Paoad Es- Tublay
	Second	Maya Alexis Gonzales	Teodoro Dicos	Bsped- La Trinidad
	Third	Cyris Arais	Nena D. Wais	Mt. Pulag Es - Kabayan
Math Quiz Grade 5	First	Geo Joshua L. Smith	Harold C. Bacuso	La Trinidad Cs- La Trinidad
	Second	Silvester T. Peping	Nelson B. Daculog	Balalbak Es- Kapangan
	Third	Ivy Tabingan	Caridad S. Dagupen	Camilo Lucaben Es- Kibungan
Math Quiz Grade 6	First	Jeshryl D. Lumbican	Tessie T. Peping	Balalbak Es- Kapangan
	Second	Rachel Raiza B. Fatongkeg	Cylene A. Bacbac	Puguis Es- La Trinidad
	Third	Collin John M. Calinsuay	Marilou W. Damiloy	Tma- Bpsa
Math Quiz Written-Elem	First	Sharry Kaye Garcia	Petra Kis-Ing	Lepanto Es- Mankayan
	Second	Jpseph Ryan Dacer	Teodoro Dicos	Bsped- La Trinidad
	Third	Dj Pier C. Allan	Amil Baguilat	Balalbak Es- Kapangan
Science Quiz Grade 3	First	Kalea Anne D. Adebán	Jennifer L. Cayat	BSPED- La Trinidad
	Second	Hershey Nicole B. Tino	Elsie L. Dimot	Saguittlang ES-Tuba
	Third	Zhanaia Shane S. Lesoc	Jusally T. Olpindo	Bonglo ES- Atok
Science Quiz Grade 4	First	Beryl Lois	Jane B. Sholin	Batuan ES- Tuba
	Second	Lindcymere B. Atinan	Mrs. Lydia Guiad	Kabayan CS- Kabayan
	Third	Sheilla M. Pakias	Dolores A. Ticol	Buyagan ES- La Trinidad
Science Quiz Grade 5	First	Korinne Adebán	Judy Ann Bolayo	BSPED- La Trinidad
	Second	Hyacinth Segundo	Eleanor Modi	Bashoy ES- Kabayan
	Third	Jamaica Gwen C. Vicente	Irene S. Siadto	Sagpat ES- Kibungan
Science Quiz Grade 6	First	Jomar C. Tarasi	Fely M. Tiden	Camp 30 ES- Atok
	Second	Kenith Maylon Mallare	Valentine Pontino Jr.	Kawal ES-Bokod
	Third	Marinel G. Guillermo	Rosalie Cabrera	Albis ES- Tublay
Action Research- Math Elem	First	Lorna V. Wallit		Buyagan Es- La Trinidad
	Second	Claudine Tauli		Ucab Es- Itogon I
	Third	Melenia Nabe		Caew Es- Mankayan
Action Research Science Elem	First	Ryan Espinosa		Mankayan Cs- Mankayan
	Second	Aurea A. Valdez		Balili Es- La Trinidad
	Third	Vivian K. Guzman		Suyoc Es- Mankayan

CONGRATULATIONS!

2016 Division Math and Science Festival Benguet Division

Science Investigatory Project Elementary – Individual Category

Rank	Project Title	Proponent	Coach	School/District
1 st	Feasibility of Pine (<i>Pinus insularis</i>) Ash as Dishwashing Liquid	Jascel Carrie B. Relay	Jasmin B. Relay	Bantas Suanding E/S; Bokod
2 nd	Lemon with Salt as Rust Remover	Harieth P. Pantaleon	Efagenia L. Paing	Balili E/S; La Trinidad
3 rd	The Natural ProBio Potential of Jackfruit Latex as an Alternative Source of Mosquito Catcher	Ryner B. Bas-ilan	Jomar P. Soriano	Puguis E/S; La Trinidad
4 th	Soda Tin Cans: An Emergency Portable Stove Burner Substitute	Jan Daniel III F. Daniel	Anneline Comila	Lepanto E/S; Mankayan
5 th	Ashes and Shells as Cement Substitute	Chandra J. Lucio	Marijone J. Lucio	Adaoay E/S; Kabayan

Science Investigatory Project Elementary – Team Categor

Rank	Project Title	Proponent	Coach	School/District
1 st	The Acceptability of Job's Tears (<i>Coix lacrym-jobi</i>) as Coffee	Mitzi Rose C. Agnasi Zoe B. Taplin Ashley Nicole p. Bay-an	Jocelyn P. Langbis	Buguias Central School; Buguias
2 nd	Rambutan (<i>Nephelium lappaceum</i>) Seeds as Brewed Drink	Mariah Virginia S. Yu Ethan Ryu Dominic C. Fadlen Norielyn Rhane A. Due	Anneline V. Comila Michelle M. Ngala	Lepanto E/S; Mankayan
3 rd	Evolving with Technology: Gabi Stalk Slicer	Dwight Keith S. Inciong Mark Kevin S. Bartolome Limuel Beniasan B. Ngipit	Hilaria R. Palayao Janet F. Mingat	Naguey E/S; Atok
4 th	Alternative Use of Lithium Ion Battery for Discarded Spotlights	Cheryl Bea S. Bayanes Odessa B. Pusayen Lois D. Ngoyngoy	Assandra Grace M. Sandoval	Paco E/S; Mankayan
5 th	Effectiveness of Lantana (<i>Lantana camara</i> Linn.) Leaves and Flowers' Guyabano (<i>Anona muricata</i> Linn.) Leaves and Pomelo (<i>Citrus maxima</i>) Fruit Extracts as Cockroach Killer	Ninotscha H. Angon Sarah Faith T. Lucas Melody T. Rapada	Sonia T. Pisda	Jose Gonzales E/S; Sablan

2016 Division Math and Science Festival | Benguet Division

Science Investigatory Project Life Science – Individual Category

Rank	Project Title	Proponent	Coach	School/District
1 st	Carbon Sequestration in Alapang Communal Forest, Alapang, La Trinidad, Benguet	Rencel Ann D. Laruan	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
2 nd	Simulating Strawberry Picking to Characterize the Influence of Seismonasty (Shaking and Touch) on the Shoot System of Selected Varieties of <i>Fragaria x ananassa</i>	Kendrel Mae L. Canabe	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
3 rd	Response of <i>Sitophilus Granarius</i> to Powdered Grains to Job's Tears: A Potential Insecticide	Caren L. Balangoy	Simon L. Langbis	Buguias National High School
4 th	The Potential of Baking Powder in Abbreviating the Head Development and as Weight Lifter of <i>Brassica oleracea var. Capitata</i>	Fe Grail I. Nagayos	Jomar B. Palileng	Loo National High School/ Buguias District
5 th	Effect of Fermented Plant Juice (FPJ) on the Growth of <i>Apium graveolens</i>	Trisha Lovelle L. Valdez	Simon L. Langbis	Buguias National High School

Science Investigatory Project Life Science – Team Category

Rank	Project Title	Proponent	Coach	School/District
1 st	Efficacy of Lemon Grass (<i>Cymbopogon citratus</i>) Extract as an Alternative Acaricide Against Chicken Mite (<i>Dermanyssus gallinae</i>)	Ingrid S. Solaina Jeraica Nonog	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
2 nd	Larvicidal Efficacy of <i>Piper betle</i> (L.), <i>Acorus calamus</i> (L.), and Combination against Dengue-carrying Mosquito <i>Aedes aegypti</i>	Jennifer S. Forayang Rogelio E. Pascual Jr. Zyleen C. Com-ong	Chad Wayne A. Oy-yeng Abegail T. Buena	Lepanto National High School – Mankayan
3 rd	Comparative Evaluation of Biodegradable Plastic from Different Plant Starches	Dixie Mae Conse Marlon dela Cruz Jr. Jerry Narciso	Maria Fe Bumughawi Rizalyn Bitaga	Mankayan National High School – Mankayan
4 th	Effect of Fermented Steamed Rice (Imo) on the Growth of <i>Allium ampeloprasum</i>	Nyler A. Bayacsan Reagan V. Calion Dennis Anthony N. Dulnuan	Simon L. Langbis	Buguias National High School – Buguias
5 th	Feeding Deterrent Efficacy of Dieffenbachia (Dumb Cane) Against GLS (Garden Land Snails)	Veronica Velasco Mailyne Kim Bumughawi Diamond Dianne Daganos	Maria Fe Bumughawi Rizaldyn Bitaga Violeta Teliaken	Mankayan National High School – Mankayan

2016 Division Math and Science Festival | Benguet Division

Science Investigatory Project Physical Science – Individual Category

Rank	Project Title	Proponent	Coach	School/District
1 st	Discarded Aluminum Foil as Radiation Shield Cellphone Casing	Kevin C. Zaragosa	Gladys Gendra Sabado	GBDAIS – Kapangan
2 nd	Drying Efficiency of Aluminum Foil from Juice Packs	Dam-ay Ethelle B. Capegsan	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
3 rd	Simulating Wind Resistance and Friction to Generate Micro-Power Using Micro-Turbine Technology and Thermoelectrics	Christopher T. Dagupen	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
4 th	Fiber Board from Selected Plant Species with Paper Pulp	Ybonne Rhea O. Bolcio	Jomar B. Palileng	Loo NHS – Buguias
5 th	The Potential of Portable Multipurpose Improved Shredder in Organic Waste Recycling	Eden Beth Baguista	Estrella B. Tabdi Dandy P. Vicente	Loo NHS – Buguias

Science Investigatory Project Physical Science – Team Category

Rank	Project Title	Proponent	Coach	School/District
1 st	Comparative Ability of Cow Manure and Rice Straw to Reduce Copper Content of Soil	Ritchelle Valarie C. Espada Wrenzel Kuert A. Pladio Audrie Nicole G. Ventura	Wanda Lyn A. Pladio Fermin I. Apidos	Lepanto NHS – Mankayan
2 nd	Optimization and Recovery of Waste Heat: Application of Thermoelectric and Piezoelectric Generators in Flat Iron Stand	Kyzer Broux Bugatan Synlee Dangatan Nikko Jay Dizon	Rose Kayee D. Pecay	Cordillera Regional Science High School – La Trinidad
3 rd	Portable Lunchbox Warmer	John Glenn B. Libag SHarmaine P. Fanged Katreena B. Sasa	Wilson B. Caysoen	Benguet NHS Main – La Trinidad
4 th	Feasibility of Cigarette Filters as Additive for Making Papers	Andrew Catayao III Maegan Callado Mylene Puddong	Wilson B. Caysoen	Benguet NHS Main – La Trinidad
5 th	The Potential of Recycled Solar Panel as Cellphone Charger	Wenzer B. Codman Cholo Karl M Bonagan Mikeson B. Danpa	Estrella B. Tabdi	Loo NHS – Buguias

**Math Investigatory Project
Individual Category**

Rank	Project Title	Proponent	Coach	School/District
1 st	Radius of the Circle a^{th} Inscribed and m^{th} Circumscribed in a Regular n -gon Formed Continuously by Connecting the Vertex to the Midpoint of One of the Opposite side of the Previous n -gon, where $n > 3$	Kyla Gayle T. Morales	Heather G. Bannagui	Cordillera Regional Science HS/ La Trinidad
2 nd	The Area of the m^{th} Formed Region and m^{th} Inscribed n -gon by Continuously Connecting the Vertices and the Midpoints of the Adjacent Apothem of a Regular n -gon	Frazel S. Baniaga	Heather G. Bannagui	Cordillera Regional Science HS/ La Trinidad
3 rd	Inscribing Triangles and Squares	Maria Emmanuelle B. Mendoza	Jim D. Alberto	Ampucao National High School/ Itogon

**Math Investigatory Project
Team Category**

Rank	Project Title	Proponents	Coach	School/District
1 st	The Perimeter of the Figure formed Upon Connecting the Apices of n Equilateral Triangles from Connecting their Bases in k Iteration	Kendrel L. Canabe Karen L. Canabe	Heather G. Banagui	Cordillera Regional Science HS/ La Trinidad
2 nd	Area of the k^{th} Figure Formed when the Center of n Tangent Circles are Vertices of a Regular n -gon	Kwyn Evanne B. Verano DJ K. Esnara	Heather G. Banagui	Cordillera Regional Science HS/ La Trinidad
3 rd	Cube of Cubes	Alpha Joy L. Martin Jeremy A. Paulino Al-jaber B. Pis-oy	Jim D. Alberto	Ampucao National HS/ Itogon

CONGRATULATIONS !

2016 Division Math & Science Festival

Strategic Intervention Material- Science Grade 3

Rank	Proponent	School	District
1 st	Larson B. Calatero	Ciriaco Magno E/S	Tublay
2 nd	Franchette M. Tomas	Puguis E/S	La Trinidad
3 rd	Yolly O. Sarapao	Ambuklao E/S	Bokod

Grade 4

Rank	Proponent	School	District
1 st	Ellaine E. Besitan	Palew E/S	Tublay
2 nd	Evalisa W. Abance	Buyagan E/S	La Trinidad
3 rd	Eleanor A. Mayomis	Ambuklao E/S	Bokod

Grade 5

Rank	Proponent	School	District
1 st	Rabert A. Lorenzo	Puguis E/S	La Trinidad
2 nd	Eleanor A. Mayomis	Ambuklao E/S	Bokod
3 rd	Jovita P. Sapalit	Pakpakitan E/S	Kibungan

Grade 6

Rank	Proponent	School	District
1 st	Biana Pating	Karao E/S	Bokod
2 nd	Agustina A. Menes	Palew E/S	Tublay
3 rd	Marie Grace A. Capley	Buyagan E/S	La Trinidad

Grade 7

Rank	Proponent	School	District
1 st	Patricia Caput	Bangao NHS	Buguias

Grade 9

Rank	Proponent	School	District
1 st	Elizabeth Silog	Tublay School of Home Industries	Tublay

Grade 10

Rank	Proponent	School	District
1 st	Nelia Depaynos	Tublay School of Home Industries	Tublay
2 nd	Jomar Palileng	Loo NHS	Buguias
3 rd	Amor Parista	Kapangan Central NHS	Kapangan

Congratulations!

2016 Division Math & Science Festival

Strategic Intervention Material- Math Elementary

Rank	Proponent	School	District
1 st	Caridad Y. Lacbaoan	Daynet ES	Itogon 11
2 nd	Loma V. Wallit	Buyagan ES	La Trinidad
3 rd	Mary Ann C. Palaci	Loo ES	Buguias
4 th	Franchette M. Tomas	Puguis ES	La Trinidad
5 th	Aileen D. Sabino	Bokod Central School	Bokod

Strategic Intervention Material- Math Secondary

Rank	Proponent	School	District
1 st	Jeanniellen Laduan	Bangao National HS	Buguias
2 nd	Jacqueline Gabatino	Mankayan National HS	Mankayan
3 rd	Olivia Telio	Tublay School of Home Industries – Ambuclao Annex	Bokod
4 th	Dolores Piaga	Bangao National HS	Buguias
5 th	Emilio Calabias	Fianza National HS	Itogon

Congratulations!